

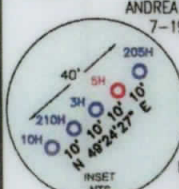
THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

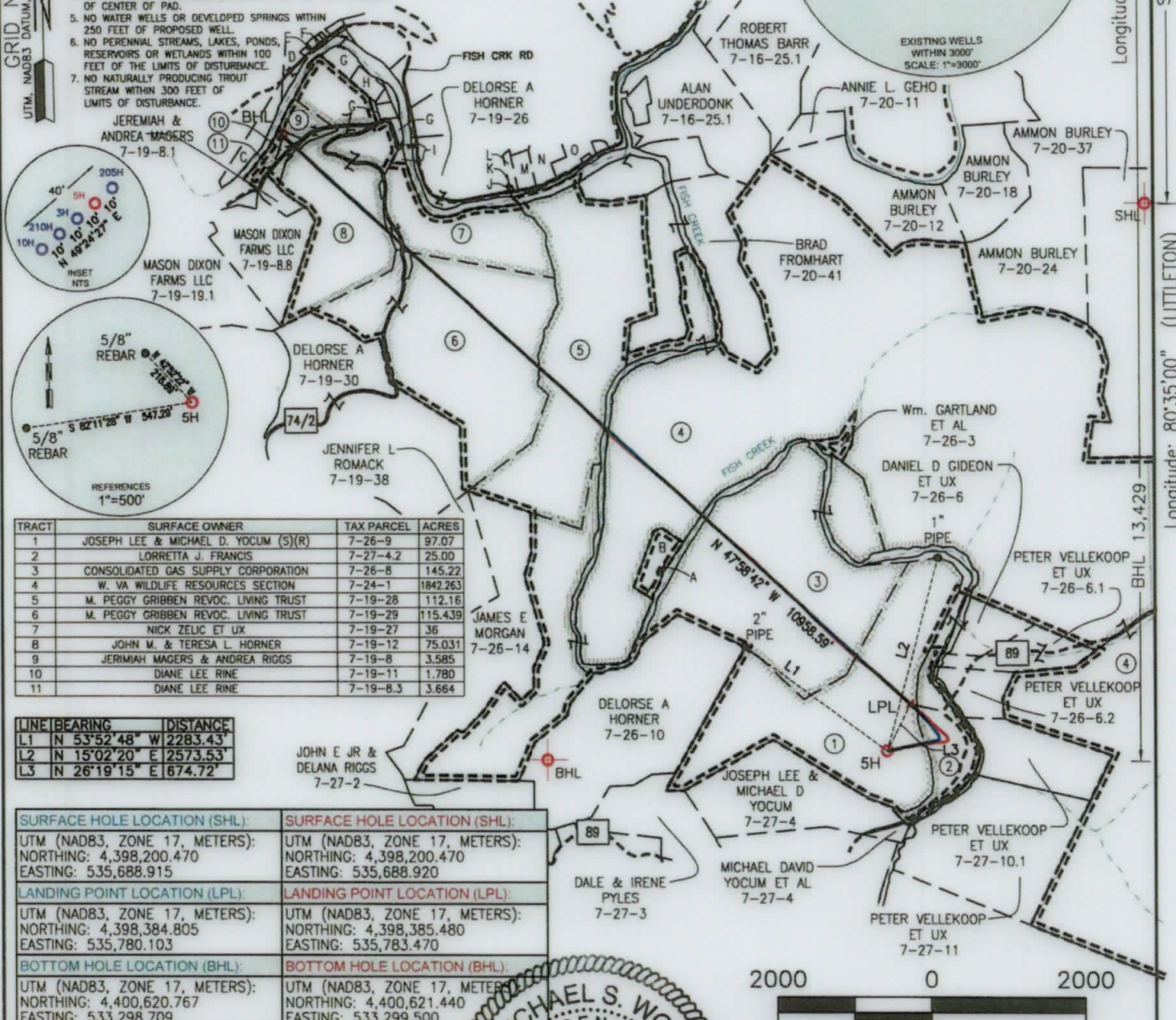
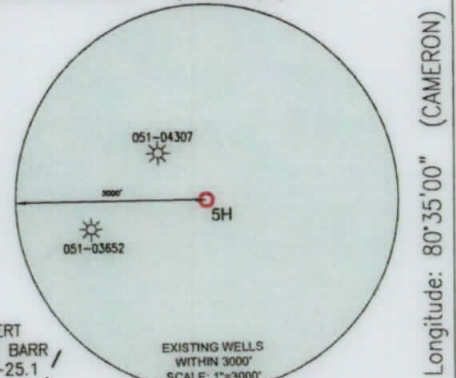
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



TRACT	SURFACE OWNER	TAX PARCEL
A	JOHN M & LISA A BUTLER	7-26-11.1
B	HUNDRED RESOURCES INC	7-26-11
C	MARY ESTHER GRIMM	7-19-10.1
D	ROBERT L MCKEY	7-16-9
E	RICHARD H KESTEL & EDWARD J SILCOX	7-16-12
F	LARRY M MYER ET UX	7-16-15
G	JOHN C & SONIA W RICHARDS	7-19-13
H	JOHN C & SONIA W RICHARDS	7-19-14
I	JOHN M & TERESA L HORNER	7-19-17
J	CHURCH OF CHRIST TRUSTEES	7-19-25
K	JAMES REGIEC SR ET AL	7-19-24
L	JAMES REGIEC SR ET AL	7-19-23.1
M	JAMES E JR & GINGER REGIEC	7-19-23.2
N	JAMES F & JAMIE ANN DRUSCHEL ET AL	7-19-23
O	GAL CUMPTON	7-19-20

Latitude: 39°45'00" (LITTLETON) SHL 119'

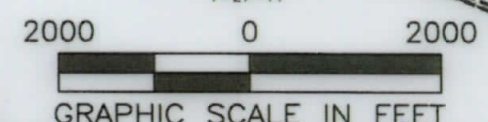
BHL 7,924'
Latitude: 39°47'30" (CAMERON)



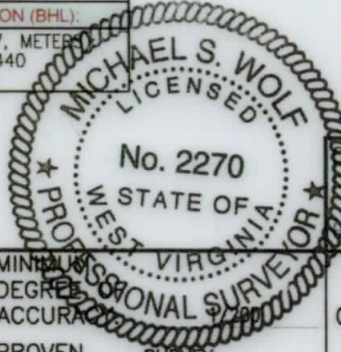
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	JOSEPH LEE & MICHAEL D. YOCUM (S)(R)	7-26-9	97.07
2	LORRETTA J. FRANCIS	7-27-4.2	25.00
3	CONSOLIDATED GAS SUPPLY CORPORATION	7-26-8	145.22
4	W. VA WILDLIFE RESOURCES SECTION	7-24-1	1842.263
5	M. PEGGY GRIBBEN REVOC. LIVING TRUST	7-19-28	112.16
6	M. PEGGY GRIBBEN REVOC. LIVING TRUST	7-19-29	115.439
7	NICK ZELIC ET UX	7-19-27	36
8	JOHN M. & TERESA L. HORNER	7-19-12	75.031
9	JERIMIAH MAGERS & ANDREA RIGGS	7-19-8	3.585
10	DIANE LEE RINE	7-19-11	1.780
11	DIANE LEE RINE	7-19-8.3	3.664

LINE	BEARING	DISTANCE
L1	N 53°52'48" W	2283.43'
L2	N 15°02'20" E	2573.53'
L3	N 26°19'15" E	674.72'

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,398,200.470
	EASTING: 535,688.915
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,398,384.805
	EASTING: 535,780.103
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,400,620.767
	EASTING: 533,298.709



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



P.S. 2270 *[Signature]*

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE ACCURACY: <u>PROVEN SURVEY</u></p> <p>SOURCE OF GRADE GPS: <u>(NAVD 88, US FT)</u></p> <p>ELEVATION: <u>(NAVD 88, US FT)</u></p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: <u>5H</u></p> <p>API WELL #: <u>47</u> <u>051</u> <u>02024</u></p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: <u>FISH CREEK</u></p> <p>DISTRICT: <u>LIBERTY</u> COUNTY: <u>MARSHALL</u></p> <p>SURFACE OWNER: <u>JOSEPH LEE AND MICHAEL D. YOCUM</u></p> <p>OIL & GAS ROYALTY OWNER: <u>JOSEPH LEE AND MICHAEL D. YOCUM</u></p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) <u>AS-DRILLED</u></p> <p>TARGET FORMATION: <u>MARCELLUS</u> ESTIMATED DEPTH: <u>6,803.62 TVD 18,518 MD</u></p>	<p>YOCUM MSH</p> <p>ELEVATION: <u>1079.4'</u></p> <p>QUADRANGLE: <u>LITTLETON, WV</u></p> <p>ACREAGE: <u>± 97.07</u></p> <p>ACREAGE: <u>± 97.07</u></p> <p>DESIGNATED AGENT: <u>BRITTANY WOODY</u></p> <p>ADDRESS: <u>1300 FORT PIERPONT DRIVE SUITE 201</u></p> <p>CITY: <u>MORGANTOWN</u> STATE: <u>WV</u> ZIP CODE: <u>26508</u></p>
<p>WELL OPERATOR: <u>SWN PRODUCTION COMPANY, LLC</u></p> <p>ADDRESS: <u>1300 FORT PIERPONT DRIVE SUITE 201</u></p> <p>CITY: <u>MORGANTOWN</u> STATE: <u>WV</u> ZIP CODE: <u>26508</u></p>		<p>REVISIONS:</p> <p>DATE: <u>8-16-2019</u></p> <p>DRAWN BY: <u>K. POTH</u></p> <p>SCALE: <u>1" = 2000'</u></p> <p>DRAWING NO: <u>030-3170</u></p> <p>WELL LOCATION PLAN</p>